Amendments to the Specification:

After the title and before the first paragraph, please insert the following paragraph:

THIS APPLICATION IS A U.S. NATIONAL PHASE APPLICATION OF PCT INTERNATIONAL APPLICATION PCT/JP2004/008518.

Please replace the paragraph, beginning at page 2, line 18, with the following rewritten paragraph:

Further, with this method, the light source section and the light receiving section are arranged so as to obtain a plurality of transmitted to received ~~height~~ light distances, in order to correct the color of the skin or the like. This makes it possible to accurately measure the thickness of the subcutaneous fat. Specifically, when the quantity of light received by the light receiving section is determined, the quantity of light received by each light receiving section, which is dependent on the skin color difference, is corrected by the quantity of light received by the light receiving element closest to the light source section.

Please replace the paragraph, beginning at page 4, line 7, with the following rewritten paragraph:

Furthermore, the method according to Japanese Patent No. 2648377 uses the reflector attached to the protective cover. This ~~calibration~~ configuration is effective if the light receiving section and the light source are located close to each other or at the same transmitted to received light distance. However, with a measurement system with a plurality of transmitted to received light distances, which are different from one another, a signal level resulting from measurement of the living body varies exponentially with the transmitted to received light distances. Accordingly, with the simple specified reflector configuration, it is difficult to reproduce the exponentially varying quantity of light.

Please replace the paragraph, beginning at page 6, line 14, with the following rewritten paragraph:

A first aspect of the invention is an optical fat measuring apparatus comprising:

Please replace the paragraph, beginning at page 7, line 6, with the following rewritten paragraph:

A second aspect of the invention is the optical fat measuring apparatus according to the first aspect of the invention, having one of said light source sections and a plurality of said light receiving sections, and

Please replace the paragraph, beginning at page 8, line 6, with the following rewritten paragraph:

A third aspect of the invention is the optical fat measuring apparatus according to the first aspect of the invention, wherein if said operation checking section determines that said light receiving section is defective, said operation checking section shows that said light receiving section determined to be defective must be cleaned or provides a corresponding sound output, and

Please replace the paragraph, beginning at page 8, line 17, with the following rewritten paragraph:

A fourth aspect of the invention is the optical fat measuring apparatus according to the first aspect of the invention, having a plurality of said light source sections and one said light receiving section, and

Please replace the paragraph, beginning at page 9, line 16, with the following rewritten paragraph:

A fifth aspect of the invention is the optical fat measuring apparatus according to the first aspect of the invention, wherein if said operation checking section determines that said light source section is defective, said operation

checking section shows that said light source section determined to be defective must be cleaned or provides a corresponding sound output, and

Please replace the paragraph, beginning at page 10, line 3, with the following rewritten paragraph:

A sixth aspect of the invention is the optical fat measuring apparatus according to the first aspect of the invention, having one of said light source section and a plurality of said light receiving sections, and

Please replace the paragraph, beginning at page 10, line 14, with the following rewritten paragraph:

A seventh aspect of the invention is the optical fat measuring apparatus according to the first aspect of the invention, having a plurality of said light source sections and one said light receiving section, and

Please replace the paragraph, beginning at page 11, line 1, with the following rewritten paragraph:

A eighth aspect of the invention is the optical fat measuring apparatus according to the sixth aspect of the invention, wherein said light receiving section includes a first light receiving section and a second light receiving section, and

Please replace the paragraph, beginning at page 11, line 16, with the following rewritten paragraph:

A ninth aspect of the invention is the optical fat measuring apparatus according to the seventh aspect of the invention, wherein said light source section includes a first light source section and a second light source section, and

Please replace the paragraph, beginning at page 12, line 4, with the following rewritten paragraph:

A tenth aspect of the invention is the optical fat measuring apparatus according to any one of the first to the ninth aspect of the invention, wherein said standard element is connected by a rotating shaft to a main body with said light source section and said light receiving section.

Please replace the paragraph, beginning at page 12, line 9, with the following rewritten paragraph:

An eleventh aspect of the invention is a standard element comprising a waveguide which can be placed opposite a light source section and a light receiving section of the optical fat measuring apparatus and which guides light from said light source section to said light receiving section when placed opposite said light source section and said light receiving section of said optical fat measuring apparatus, said waveguide having a predetermined transmittance.

Please replace the paragraph, beginning at page 12, line 17, with the following rewritten paragraph:

A twelfth aspect of the invention is the standard element according to the eleventh aspect of the invention wherein said waveguide is a scatterer which scatters light or an absorber which absorbs light.

Please replace the paragraph, beginning at page 12, line 20, with the following rewritten paragraph:

A thirteenth aspect of the invention is the standard element according to the eleventh aspect of the invention wherein a reflecting layer is provided in the parts of said waveguide other than its surface opposite said light source section and said light receiving section when said standard element is placed so that said waveguide is opposite said light source section and said light receiving section.

Please replace the paragraph, beginning at page 13, line 3, with the following rewritten paragraph:

A fourteenth aspect of the invention is the standard element according to the eleventh aspect of the invention wherein a space is provided between said waveguide and said light source section and said light receiving section when said standard element is placed so that said waveguide is opposite said light source section and said light receiving section.

Please replace the paragraph, beginning at page 13, line 9, with the following rewritten paragraph:

A fifteenth aspect of the invention is the standard element according to the fourteenth aspect of the invention wherein said waveguide partly has a concave portion and said concave portion forms said space.

Please replace the paragraph, beginning at page 13, line 12, with the following rewritten paragraph:

A sixteenth aspect of the invention is the standard element according to the eleventh aspect of the invention wherein said standard element has a protective cover which covers the parts of said waveguide other than its surface opposite said light source section and said light receiving section.

Please replace the paragraph, beginning at page 13, line 17, with the following rewritten paragraph:

A seventeenth aspect of the invention is a method of optically measuring fat, said method of making measurement using an optical fat measuring apparatus comprising:

Please replace the paragraph, beginning at page 14, line 17, with the following rewritten paragraph:

a step of, if the quantities of light received by a smaller number of said light receiving sections than that of the plurality of said light receiving sections are smaller than said reference value for the quantity of light received corresponding to

these light receiving sections, ~~to determine~~ determining that these light receiving sections are defective, and

———if each ~~quantities~~ quantity of light received by all of the plurality of said light receiving sections are smaller than the reference value for the quantity of light received corresponding to said each light receiving sections, to determine that said light source section is defective.

Please replace the paragraph, beginning at page 15, line 3, with the following rewritten paragraph:

An eighteenth aspect of the invention is a method of optically measuring fat, said method of making measurement using an optical fat measuring apparatus comprising:

Please replace the paragraph, beginning at page 16, line 15, with the following rewritten paragraph:

A nineteenth aspect of the invention is a method of optically measuring fat, said method of making measurement using an optical fat measuring apparatus comprising:

Please replace the paragraph, beginning at page 17, line 14, with the following rewritten paragraph:

A twentieth aspect of the invention is a method of optically measuring fat, said method of making measurement using an optical fat measuring apparatus comprising:

Please replace the paragraph, beginning at page 39, line 6, with the following rewritten paragraph:

After the protective cover 13 has been installed, that is, the protective cover 13 has been placed around the light sources 2 and the light receiving section 3 with the waveguide 14 placed opposite the light sources 2 and light receiving section 3,

the operation checking section 16 lights the correcting light source 22. The light propagates through the waveguide 14 and is then received by the light receiving section 3. The operation checking section 16 then measures the quantity of light received by the light receiving section 3, Y1'. Then, the operation checking section 16 lights the measuring light source 21 and measures the quantity of light received by the light receiving section 3, Y2'. The operation checking section 16 then compares the plurality of quantities of light received with reference values determined in association with the respective quantities of light received as references. Then, if only one of the quantities of light received is small, the operation checking section 16 determines that this light source 2 is defective. Then, the display section 9 shows that the light source 2 must be cleaned. Once the display section 9 shows that the light source 2 must be cleaned, the user of the optical fat measuring apparatus cleans the light source 2 for which the need for cleaning is displayed. Further, if the quantity of light received is small for all the light sources 2, the operation checking section 16 determines that the light receiving section 3 is defective. Then, the display section 9 shows that the light receiving section 3 must be cleaned. Once the display section 9 shows that the light receiving section 3 must be cleaned, the user of the optical fat measuring apparatus cleans the light receiving section for which the need for cleaning is displayed. By thus displaying the need for cleaning, it is possible to inform the user of the defect and measures to be taken. Accurate fat measurement is always possible. ~~It is possible to inform the user of the defect and measures to be taken. Accurate fat measurement is always possible.~~

Please delete the following title, beginning at page 46, line 19:

~~Industrial Applicability~~